## SEQUENCE LISTING

<110> THE JOHNS HOPKINS UNIVERSITY ROTHSTEIN, Jeffery D. RUGGIERO, Alicia <120> METHODS OF IDENTIFYING MODULATORS OF CELLULAR GLYCOSYLATION USING <130> JHU2090-1 <140> US 10/542,435 <141> 2004-01-18 <150> PCT/US2004/001162 <151> 2004-01-18 <150> US 60/440,717 <151> 2003-01-17 <160> 10 <170> PatentIn version 3.3 <210> 1 <211> 567 <212> DNA <213> Rattus norvegicus atggacgtga accttgcccc gctccgtgcc tgggatgatt tcttcccggg ctctgatcgt 60 ttcgcacggc cggacttcag ggatatatcc aaatggaaca accgtgtagt gagcaatctg 120 ctctattacc agaccaacta cctggtggtg gctgccatga tgatttcagt cgttgggttt 180 ctgagcccct tcaacatgat ccttggagga atcattgtgg tgctggtgtt cacggggttt 240 gtgtgggcag cacacaataa agacatcctc cgccggatga agaagcagta cccaacggcc 300 tttgtcatgg tggtcatgct agccagctac ttcctcatat ccatgtttgg gggtgtcatg 360 gtctttgtgt ttggcatcac gtttccctta ttgttgatgt tcatccatgc atccctgaga 420 cttcgaaacc tcaagaacaa actggaaaat aaaatggagg gaataggctt qaaqaaaacq 480 ccgatgggca tcatcctgga tgccttggaa cagcaggaag acagcatcaa taaatttgct 540 gactacatca gcaaagccag ggagtaa 567 <210> 2 <211> 188 <212> PRT <213> Rattus norvegicus <400> 2

Met Asp Val Asn Leu Ala Pro Leu Arg Ala Trp Asp Asp Phe Phe Pro

10

5

Gly Ser Asp Arg Phe Ala Arg Pro Asp Phe Arg Asp Ile Ser Lys Trp 20 25 30

Asn Asn Arg Val Val Ser Asn Leu Leu Tyr Tyr Gln Thr Asn Tyr Leu 35 40 45

Val Val Ala Ala Met Met Ile Ser Val Val Gly Phe Leu Ser Pro Phe 50 55 60

Asn Met Ile Leu Gly Gly Ile Ile Val Val Leu Val Phe Thr Gly Phe 65 70 75 80

Val Trp Ala Ala His Asn Lys Asp Ile Leu Arg Arg Met Lys Lys Gln 85 90 95

Tyr Pro Thr Ala Phe Val Met Val Met Leu Ala Ser Tyr Phe Leu
100 105 110

Ile Ser Met Phe Gly Gly Val Met Val Phe Val Phe Gly Ile Thr Phe
115 120 125

Pro Leu Leu Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu 130 135 140

Lys Asn Lys Leu Glu Asn Lys Met Glu Gly Ile Gly Leu Lys Lys Thr 145 150 155 160

Pro Met Gly Ile Ile Leu Asp Ala Leu Glu Gln Gln Glu Asp Ser Ile 165 170 175

Asn Lys Phe Ala Asp Tyr Ile Ser Lys Ala Arg Glu 180 185

<210> 3

<211> 96

<212> PRT

<213> Homo sapiens P429-End EAAT3

<400> 3

Pro Ala Glu Asp Val Thr Leu Ile Ile Ala Val Asp Trp Leu Leu Asp 1 5 10 15

Arg Phe Arg Thr Met Val Asn Val Leu Gly Asp Ala Phe Gly Thr Gly 20 25 30

Ile Val Glu Lys Leu Ser Lys Lys Glu Leu Glu Gln Met Asp Val Ser

35 40 45

Ser Glu Val Asn Ile Val Asn Pro Phe Ala Leu Glu Ser Thr Ile Leu 50 55 60

Asp Asn Glu Asp Ser Asp Thr Lys Lys Ser Tyr Val Asn Gly Gly Phe 65 70 75 80

Ala Val Asp Lys Ser Asp Thr Ile Ser Phe Thr Gln Thr Ser Gln Phe 85 90 95

<210> 4

<211> 121

<212> PRT

<213> Homo sapiens P439-End EAAT5

<400> 4

Pro Thr Asp Asp Ile Thr Leu Ile Ile Gly Val Asp Trp Ala Leu Asp 1 5 10 15

Arg Phe Arg Thr Met Ile Asn Val Leu Gly Asp Ala Leu Ala Ala Gly 20 25 30

Ile Met Ala His Ile Cys Arg Lys Asp Phe Ala Arg Asp Thr Gly Thr 35 40 45

Glu Lys Leu Leu Pro Cys Glu Thr Lys Pro Val Ser Leu Gln Glu Ile 50 55 60

Val Ala Ala Gln Gln Asn Gly Cys Val Lys Ser Val Ala Glu Ala Ser 65 70 75 80

Glu Leu Thr Leu Gly Pro Thr Cys Pro His His Val Pro Val Gln Val 85 90 95

Glu Arg Asp Glu Glu Leu Pro Ala Ala Ser Leu Asn His Cys Thr Ile 100 105 110

Gln Ile Ser Glu Leu Glu Thr Asn Val 115 120

<210> 5

<211> 92

<212> PRT

<213> Homo sapiens P441-end ASCT1

<400> 5

Pro Thr His Asp Leu Pro Leu Ile Leu Ala Val Asp Trp Ile Val Asp

Arg Thr Thr Thr Val Val Asn Val Glu Gly Asp Ala Leu Gly Ala Gly

Ile Leu His His Leu Asn Gln Lys Ala Thr Lys Lys Gly Glu Gln Glu

Leu Ala Glu Val Lys Val Glu Ala Ile Pro Asn Cys Lys Ser Glu Glu

Glu Thr Ser Pro Leu Val Thr His Gln Asn Pro Ala Gly Pro Val Ala 70

Ser Ala Pro Glu Leu Glu Ser Lys Glu Ser Val Leu 85

<210> 6

<211> 93

<212> PRT

<213> Homo sapiens P448-end ASCT2

Pro Val Asp His Ile Ser Leu Ile Leu Ala Val Asp Trp Leu Val Asp 5 10

Arg Ser Cys Thr Val Leu Asn Val Glu Gly Asp Ala Leu Gly Ala Gly 20 25 30

Leu Leu Gln Asn Tyr Val Asp Arg Thr Glu Ser Arg Ser Thr Glu Pro 35 40

Glu Leu Ile Gln Val Lys Ser Glu Leu Pro Leu Asp Pro Leu Pro Val 50 55

Pro Thr Glu Glu Gly Asn Pro Leu Leu Lys His Tyr Arg Gly Pro Ala 70

Gly Asp Ala Thr Val Ala Ser Glu Lys Glu Ser Val Met

<210> 7

<211> 82 <212> PRT

<213> Homo sapiens P462-End EAAT1

<400> 7

Pro Thr Asp Asp Ile Thr Leu Ile Ile Ala Val Asp Trp Phe Leu Asp 1 5 10 15

Arg Leu Arg Thr Thr Thr Asn Val Leu Gly Asp Ser Leu Gly Ala Gly 20 25 30

Ile Val Glu His Leu Ser Arg His Glu Leu Lys Asn Arg Asp Val Glu 35 40 45

Met Gly Asn Ser Val Ile Glu Glu Asn Glu Met Lys Lys Pro Tyr Gln 50 55 60

Leu Ile Ala Gln Asp Asn Glu Thr Glu Lys Pro Ile Asp Ser Glu Thr 65 70 75 80

Lys Met

<210> 8

<211> 104

<212> PRT

<213> Rat P462-End rGlt-1b

<400> 8

Pro Thr Glu Asp Ile Ser Leu Leu Val Ala Val Asp Trp Leu Leu Asp 1 5 10 15

Arg Met Arg Thr Ser Val Asn Val Val Gly Asp Ser Phe Gly Ala Gly 20 25 30

Ile Val Tyr His Leu Ser Lys Ser Glu Leu Asp Thr Ile Asp Ser Gln 35 40 45

His Arg Met His Glu Asp Ile Glu Met Thr Lys Thr Gln Ser Ile Tyr 50 55 60

Asp Asp Thr Lys Asn His Arg Glu Ser Asn Ser Asn Gln Cys Val Asn 65 70 75 80

Ala Ala His Asn Ser Val Val Ile Asp Glu Cys Lys Val Pro Phe Pro 85 90 95

Phe Leu Asp Ile Glu Thr Cys Ile 100

<210> 9

<211> 115

<212> PRT

<213> Rat P462-End rGlT-1

<400> 9

Pro Thr Glu Asp Ile Ser Leu Leu Val Ala Val Asp Trp Leu Leu Asp 1 5 10 15

Arg Met Arg Thr Ser Val Asn Val Val Gly Asp Ser Phe Gly Ala Gly 20 25 30

Ile Val Tyr His Leu Ser Lys Ser Glu Leu Asp Thr Ile Asp Ser Gln 35 40 45

His Arg Met His Glu Asp Ile Glu Met Thr Lys Thr Gln Ser Val Tyr 50 55 60

Asp Asp Thr Lys Asn His Arg Glu Ser Asn Ser Asn Gln Cys Val Tyr 65 70 75 80

Ala Ala His Asn Ser Val Val Ile Asp Glu Cys Lys Val Thr Leu Ala 85 90 95

Ala Asn Gly Lys Ser Ala Asp Cys Ser Val Glu Glu Glu Pro Trp Lys
100 105 110

Arg Glu Lys 115

<210> 10

<211> 79

<212> PRT

<213> Rat P486-End EAAT4

<400> 10

Pro Thr Glu Asp Ile Thr Leu Ile Ile Ala Val Asp Trp Phe Leu Asp 1 5 10 15

Arg Leu Arg Thr Met Thr Asn Val Leu Gly Asp Ser Ile Gly Ala Ala 20 25 30

Val Ile Glu His Leu Ser Gln Arg Glu Leu Glu Leu Gln Glu Ala Glu
35 40 45

Leu Thr Leu Pro Ser Leu Gly Lys Pro Tyr Lys Ser Leu Met Ala Gln 50 55 60

Glu Lys Gly Ala Ser Arg Gly Arg Gly Gly Asn Glu Ser Ala Met 65 70 75